



**Rajiv Gandhi Proudyogiki Vishwavidyalaya, M.P.**  
(State Technological University of Madhya Pradesh)  
**[Accredited with Grade 'A' by NAAC]**



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**Five Days Online Faculty Development Program (FDP)**

On

**“Smart Grid : The Technology Roadmap”**

**Date: 22<sup>nd</sup> February – 26<sup>th</sup> February 2021**

**Host Institution**

**Vidhyapeeth Institute of Science and Technology, Bhopal –M.P.**  
(Department of Electrical and Electronics Engineering)

### **PROGRAM OBJECTIVE:**

The Smart Grid is confluence of information, communications & electrical technologies for efficient grid operations. Smart Generation, Smart Transmission and Smart Distribution will create a new roadmap for conventional power grid and in smart grid vision, a collection of existing and emerging technologies works together to achieve energy efficiency, automation and financial benefits. The objective of this FDP is to introduce about the smart grid technologies and infrastructure for deployment of resilient and efficient energy systems. This FDP will be beneficial for participants to understand the control and operational strategies of decentralized architecture of smart grid.

### **FOLLOWING TOPICS WILL BE COVERED BY EXPERTS:**

- Smart Grid Overview
- Smart Grid Architecture & Design
- Smart Grid Measurement Technology
- Smart Grid Communication Technology
- IT Enablers for Smart Grid Technology
- Smart Analytics
- Smart Grid Decision Support & operational technology
- New technology Integration
- Smart Grid Standards and Protocols
- Interoperability and associated standard

## **WHO CAN PARTICIPATE:**

Faculty and Research Scholar's from institutions across the country of relevant disciplines. Priority will be given to faculty from RGPV affiliated institutions. Batch Size is limited to maximum 100 participants.

## **ELIGIBLE DISCIPLINES:**

Electrical, Electrical & Electronics, Electronics, Electronic & Communication Engineering, Computer Science & Engineering, Information Technology and relevant branches.

## **REGISTRATION:**

Registration Link:

**[http://teqip.rgpv.ac.in/Events/EventOpenRegistration.aspx?Event\\_ID=OWDCAP%2bkVbY%3d](http://teqip.rgpv.ac.in/Events/EventOpenRegistration.aspx?Event_ID=OWDCAP%2bkVbY%3d)**

## **CERTIFICATION:**

Certificates will be issued subject to the participants qualifying the following conditions:

- Minimum 80% attendance.
- Minimum 60% marks in the exam conducted on last day of the program.

## **ABOUT THE HOST INSTITUTE:**

Vidhyapeeth group of Institutions (VGI) was established in 2009, which is promoted by Maa Saraswati Education Society under the patronage of Suhane Group who are the owner of Hi-tech Security printers and News paper. VGI learning is characterized by a systematic methodology integrated with a team of dynamic faculties. The institute is approved by AICTE and NCTE and affiliated to RGPV and BU Bhopal.

Currently VGI offers B.Tech. in 5 Branches (ME,CE,CSE,EX,EC), M.Tech. in 2 Branches (VLSI & Embedded System Design , Thermal) and Diploma in 2 Branches ( ME, EE). Apart from these courses VGI also offers B.Ed., B.B.A. and B.Com.

Exposing the young Minds to the world of engineering and education, VGI provides the right platform & ambience to inculcate professional traits and aspirations in the budding students. Besides, the

Institute sustains the development of all facets of minds cumulating in an intellectual and balanced personality. With its focus on academic excellence and discipline VGI excels in academic, Placements, Co-curricular activities by winning many awards and University ranks.

### **PROGRAM CO-ORDINATOR**

Prof Arvind Gupta,  
Dean, VIST Bhopal  
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### **PROGRAM CO-COORDINATOR**

Prof Swati Gupta, VIST, Bhopal  
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Five Days Online Faculty Development Program (FDP) under TEQIP-III

On

**“Smart Grid : The Technology Roadmap”**

**(22<sup>nd</sup> February to 26<sup>th</sup> February 2021))**

**Organized By**

Rajiv Gandhi Proudyogiki Vishwavidyalaya, M.P. (State Technological University of Madhya Pradesh)

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**Session Schedule**

Inauguration Ceremony is scheduled on 22.02.2021 between 10:30 AM to 11:00 AM



Time Date	11:00 AM to 12:30 AM	Break	03:00 PM to 04:30 PM
22.02.2021 Monday	Session 1 Smart Grid Overview Dr Ankush Sharma, IIT Kanpur		Session 2 Smart Grid Architecture & Design Dr Ankush Sharma, IIT Kanpur
23.02.2021 Tuesday	Session 3 Smart Grid Measurement Technology Dr Ankush Sharma, IIT Kanpur		Session 4 Smart Grid Communication Technology Dr Ankush Sharma, IIT Kanpur
24.02.2021 Wednesday	Session 5 IT Enablers for Smart Grid Technology Dr Amey Karkare, IIT Kanpur		Session 6 Smart Analytics Dr Amey Karkare, IIT Kanpur
25.02.2021 Thursday	Session 7 Smart Grid Decision Support & operational technology Dr Ankush Sharma, IIT Kanpur		Session 8 New technology Integration Dr Amey Karkare, IIT Kanpur
26.02.2021 Friday	Session 9 Smart Grid Standards and Protocols Dr Amey Karkare, IIT Kanpur		Session 10 Interoperability and associated standard Dr Amey Karkare, IIT Kanpur

**Valedictory Ceremony and Feedback Session after Session 10 on 26.02.2021**